

JAN 21 2005



Replacement Sheet

PC43	EC 1	(29)	ASTVIHYEIPPEERK-----GFAVGNNVWANL--GLDLGSLSA--	(63)
	EC 2	(136)	PTEQEMKLEISEAVAP-----GTRFPPLESAH---DPDLGSNSL--	(169)
	EC 3	(245)	NQSLYRARVPGGCTS-----GTRVOVLAT---DLDGPNGE--	(278)
	EC 4	(353)	TVTSVYSPVEDAS-----GTVIALLSVT---DLDAGENGL--	(385)
	EC 5	(457)	SQSSSYDVYIEENNLP-----GAPILNLSWV---DPDAPQNAR--	(490)
	EC 6	(567)	LYPRPGCSSVEMPLRGTS-----GHLVSRVVGW---DADAGHNAW--	(604)
PC42	EC 1	(42)	VPEEQPPNTLI-----GSL-----ADYGFDPVG-	(65)
	EC 2	(147)	ASPVITLAIPENTNI-----GSLFPIPLAS---DRDAGPNGV--	(180)
	EC 3	(247)	ERPSYEAEELSEN SPI-----GHSVIVQVKAN---DSRDQGANAE--	(280)
	EC 4	(354)	EIRGIGLVTHQDGMANISVEDVAEETAVALVQVS DRDEGENAA--	(395)
	EC 5	(473)	TOSVTEAFPENIKP-----GEVIAEITAS---DADSGNAE--	(506)
	EC 6	(579)	MLSGYNFSYMEMPA-----LSPVGMVTVI---DGDKGNAQ--	(612)
	EC 7	(682)	TAPSNTSHKLTTPQTRL---GETVSQVAE---DFDSGNAE--	(717)
FAT	EC18	(1)	EDTVYSFDIPENAQR-----GYAQGQIVAR---DADLGNAQ--	(34)
N-CAD	EC 1	(1)	DWYIPPINLPENSRG-----PFPOELVRIRS---DRDKNLSLRYT	(37)
	EC 2	(109)	LHQWQWNGSYPEGSKP-----GTVVMTVTAI---DADDPNALNGM	(144)
	EC 3	(224)	TAMTFYGEVPENRVD-----LIVANLTVT---DKDQPHTPAWN	(258)
	EC 4	(339)	APNPKIRQEEGLHA-----GTMLLTTFTAG---DPDRYMQQN--	(372)
	EC 5	(447)	LPQEAEETCETPDPNSSINITIAL-----DYDIDPNAGP-	(478)

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\*\*\*\*\*0\*\*\*V\*EN\*\*\*-----GT\*v\*\*v\*A\*---D\*D\*g\*n\*\*\*--

FIGURE 1A

Replacement Sheet

PC43	EC 1	(64)	RRFPVSGASRR-----FFEVNRET-----GEMFVNDR-----	(91)
	EC 2	(170)	QTYELSRNEY-----FALRVQTREDSTKYAEVLERA-----	(201)
	EC 3	(279)	IYSGSHNRAGVRQL--FALDLVT-----GMLTIKGR-----	(309)
	EC 4	(386)	VTCEVPPGLP-----FSLTSSLKNYFTLKTSA-----	(413)
	EC 5	(491)	LSFFLLEQGAETGLVGRYFTINRDN-----GIVSSLVP-----	(523)
	EC 6	(605)	LYSLLFGSPNQSL-----FAIQLHT-----GQISTARPV-----	(633)
PC42	EC 1	(66)	HYKLEVGAP-----YLRYOGKT-----GDIFFTETS-----	(92)
	EC 2	(181)	ASYELOVAED-----QEEKOPOLIVMGN-----	(203)
	EC 3	(281)	IEYTFHOAPEVYRRL---LRLDRT-----GLITYQGP-----	(310)
	EC 4	(396)	VTCVAGDVP-----FOLROASETGSDSKKKYFLQTTTP-----	(429)
	EC 5	(507)	LVYSLEPEPAAKGL---FTISPET-----GEIQVKTS-----	(535)
	EC 6	(613)	YQLSVEODNGD-----FVIQNGT-----GTILSSLS-----	(638)
	EC 7	(718)	LIYIAAGGNPYGL-----FOIGSHS-----GATILEKE-----	(745)
FAT	EC18	(35)	LSYGWVSDWANDV-----FSLNPQT-----GMLTLTAR-----	(62)
N-CAD	EC 1	(38)	VTGPGADQPPPTGI-----FIINPIS-----GOLSVTKP-----	(65)
	EC 2	(145)	LYRIRILSOAPSTPSPNM-FIINNET-----GDIJITVAAG-----	(177)
	EC 3	(259)	AYYRISGGDPTGR-----FAIOTDPNSND-GLVTWVKP-----	(290)
	EC 4	(373)	TRYTKLSDPAN-----WLKIDPVN-----GQITTIAV-----	(399)
	EC 5	(479)	FAFDLPLSPVTIKRN--WTITRLN-----GDFAQNLKLK-----	(509)
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FIGURE 1B

PC43	EC 1	(92)	LDREELCGTLPSCVTLELIVVNP-----	LELFSEVVVIODINDNNPAF (135)
	EC 2	(202)	LDRERPSIQLVLVLTALDGGTPAL-----	SASLPIHIKVLDANDNAPVF (244)
	EC 3	(310)	LDFEDTKLHEITYIAOKDKGANPE-----	GAHCKVLLVEVVDNDNAPEI (352)
	EC 4	(414)	LDRETYPEYNLSITARDAGTPSL-----	SALTIVRVQSDINDNPPQS (456)
	EC 5	(524)	LDYEDRREFELTAHISDGGTPVL-----	ATNISVYNIIFVTDNDNAPOV (566)
	EC 6	(634)	QDTDSPRQLTTL-IKDNGEPESLSTTATLTWSVTEDSPEARAEFPSSAPREQKKN (688)	
PC42	EC 1	(93)	IDREGLRECQNOLPGDPCILEFEVSITDLVNAS-----	PRLEGQIEVODINDNTPNF (146)
	EC 2	(204)	LDRERWDSYDLTIKYQDGGSPPR-----	ATSALLRRTVLDTNNDNAPKF (246)
	EC 3	(311)	VDREDLSTLRFSVLAKDRTGNPK-----	SARAQWVVTVKDMINDNAPTI (353)
	EC 4	(430)	LDYEKYKDYTIEIYAVDSGNPP-----	SSTNSLKVQVVDNDNAPVF (472)
	EC 5	(536)	LDREQRESYELKVAADRGSPPSL-----	QGTATVLYNVLDQNNDPKF (578)
	EC 6	(639)	FDREQQSTTYTFOLKAVIDGGVPPR-----	SAYVGTTINVLDENDNAPYI (681)
	EC 7	(746)	IERRHHGLHLVVKVSDRGKPPRYGTALVHLYVNETLANRTLLETLLGHSLDTPLD (801)	
FAT	EC 18	(63)	LDYEEVQHYILIVAOODNGQPSL-----	STTITYCVLVDLNAPIF (105)
N-CAD	EC 1	(66)	LDREQIARFHRLRAHAVDINGNQV-----	ENPIDIVINVIDMDNDNRPEF (108)
	EC 2	(178)	LDREREKYQQYTLLIQATDMEGNPTYGL-----	SNTATAVITYTVTDNDNPPEF (223)
	EC 3	(291)	IDFETNRMFVLTVAEAENQVPLAKGJQHPP-----	QSTATVSYTVIDVNE-NPYF (338)
	EC 4	(400)	LDRESPNWKKNNIYNAFLASDNGIPPM-----	SGTGTLOIYLLDINDNAPQV (446)
	EC 5	(510)	IKFLEAGIYEVPPIITDSGNPPKSNIKS-----	ILRVRVRCQCDFNGDCTDVDR (557)

MOTIF

LDRE\*\*\*\*\*0\*L\*v\*A\*D\*g\*G\*v\*D\*v\*D\*NDNAP\*F

FIGURE 1C